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Edited by Peter C. Hoch and A. G. Stephenson

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Annals of the Missouri Botanical Garden, Volume 82, Number 2: Alternative Genes for Phylogenetic Reconstruction in Plants

A symposium cosponsored by the American Society of Plant Taxonomists and the Botanical Society of America, organized by Pamela S. Soltis and Douglas E. Soltis, and presented at the 1993 AIBS meetings.

Although the chloroplast gene rbcL has been successfully used to reconstruct plant phylogeny, many important questions of plant phylogeny and evolution cannot be addressed using it. The contributors to this issue of the Annals explore the potential of eight alternative genes or DNA regions for phylogenetic reconstruction at a variety of hierarchical levels. Both nuclear and chloroplast genes are evaluated. Three regions of the nuclear ribosomal RNA cistron are explored: the 18S gene, the internal transcribed spacers (ITS), and the 26S gene. Small multigene families from the nuclear genome may also carry phylogenetic signal: the phytochrome gene family and the small heat shock gene family. Three genes from the chloroplast genome are also considered: atpB, ndhF, and matK. Each paper describes the location, size, structure, and rate of evolution of the chosen gene and discusses its potential for phylogenetic study. This issue also contains: "The Comparative Pollination and Floral Biology of Baobabs (Adansonia-Bombacaceae)" by David A. Baum and "In Memoriam: Peter G. Martin." Annals 82(2) 1995. 174 pages. \$27.50 U.S. \$28.00 Non-U.S.

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